WHAT IS CLAIMED IS:

- 1. A cooking method for pulp, which comprises polysulfide cooking method pulping a lignocellulose material with an alkaline cooking liquor containing
- polysulfides in the presence of a quinone-hydroquinone compound, wherein the oxidation-reduction potential of the quinone-hydroquinone compound in the form present during the cooking, which potential is a value calculated as a standard oxidation-reduction potential (Ea) with a
- hydrogen ion activity of 1, is from 0.12 to 0.25V to the standard hydrogen electrode potential.
- The cooking method for pulp according to Claim 1,
 wherein the oxidation-reduction potential, which
 potential is a value calculated as a standard oxidationreduction potential (Ea) with a hydrogen ion activity of
 1, is from 0.14 to 0.20V to the standard hydrogen
 electrode potential.
 - 3. The cooking method for pulp according to Claim 1, wherein the concentration of polysulfide sulfur in the alkaline cooking liquor containing polysulfides, is at least 6 g/ ℓ .
 - 4. The cooking method for pulp according to Claim 1, wherein the concentration of polysulfide sulfur in the alkaline cooking liquor containing polysulfides, is at
- 25 least 8 g/l.
 - 5. The cooking method for pulp according to Claim 1, wherein the alkaline cooking liquor containing

polysulfides is produced by electrolysis of white liquor or green liquor.

- 6. The cooking method for pulp according to Claim 1, wherein the concentration of Na_2S -state sulfur calculated as Na_2O in the alkaline cooking liquor containing polysulfides, is at least 10 g/ ℓ .
- 7. The cooking method for pulp according to Claim 1, wherein the alkaline cooking liquor during the cooking contains from 0.01 to 1.5 wt% of the quinone-hydroquinone compound based on bone-dry chip.
- 8. The cooking method for pulp according to Claim 1, wherein the liquid to wood ratio of the cooking liquor during the cooking is from 1.5 to 5.0 ℓ /kg based on bonedry chip.

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